

**UNIVERSITY COLLEGE TATI (UC TATI)****FINAL EXAM QUESTION BOOKLET**

COURSE CODE : DEI 2123 311
COURSE : ELECTRICAL INSTALLATION
SEM/SESSION : 2 - 2024/2025
DURATION : 3 HOURS

Instructions:

1. This booklet contains 4 questions. Answer **ALL** questions.
2. All answers should be written in answer booklet.
3. Write legibly and draw sketches wherever required.
4. If in doubt, raise your hands and ask the invigilator.

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO

THIS BOOKLET CONTAINS 7 PRINTED PAGES INCLUDING COVER PAGE

ELECTRICAL INSTALLATION (DEI 2123)

QUESTION 1

- a) Table 1, show the symbols of electrical drawing. State the description for every symbol. (7 marks)

Table 1

Symbol	Description
	
	
	
	
	
	
	

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b) From the schematic diagram shown in Figure 1, alter the schematic diagram to the drawing provided in **APPENDIX 1** to identify a complete wiring diagram for the wiring task:

- Switch S1 and S2 controlling lamp A
- Socket S3 from DB

(4 marks)

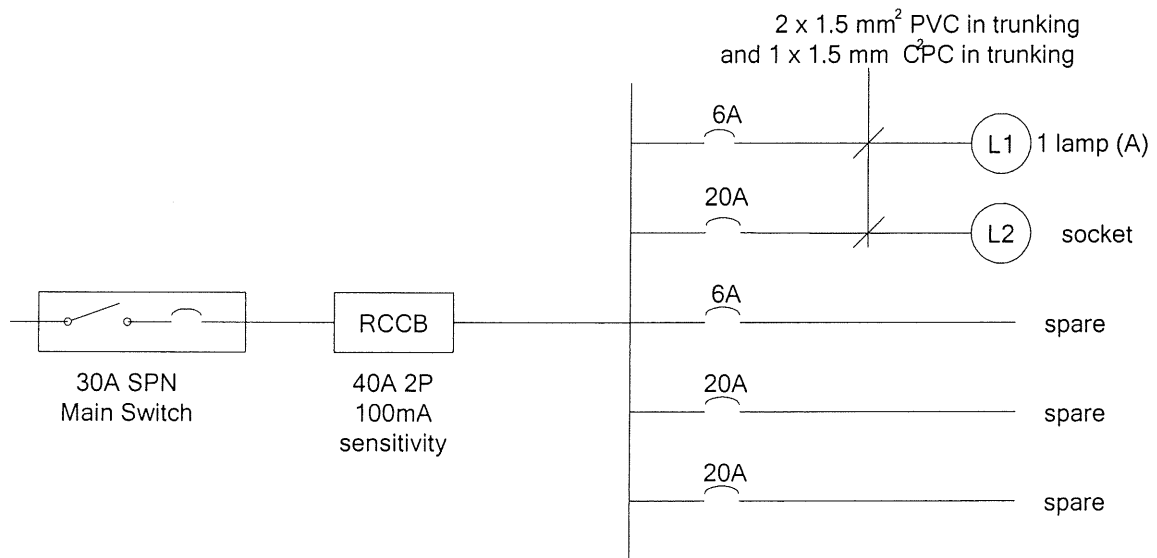


Figure 1

QUESTION 2

a) Identify how tripping can occur in circuit breaker.

(4 marks)

b) List **three (3)** types of earthing system.

(3 marks)

QUESTION 3

a) Name the **three (3)** types of speed control for three phase induction machines.

(3 marks)

- b) Figure 2 shows D.O.L starter electrical connection schematic diagram. Identify the D.O.L wiring for three phase motor in **APPENDIX 2**.

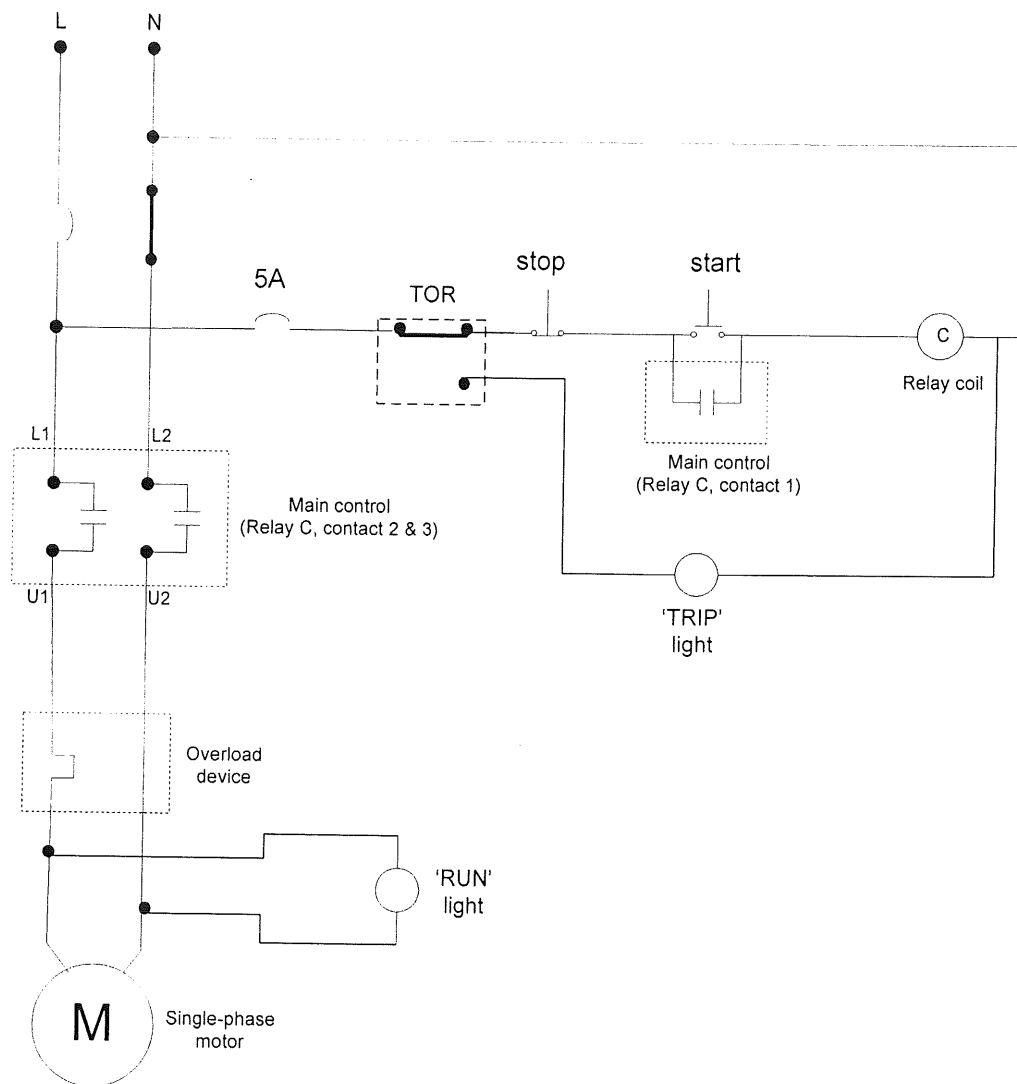


Figure 2

(12 marks)

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QUESTION 4

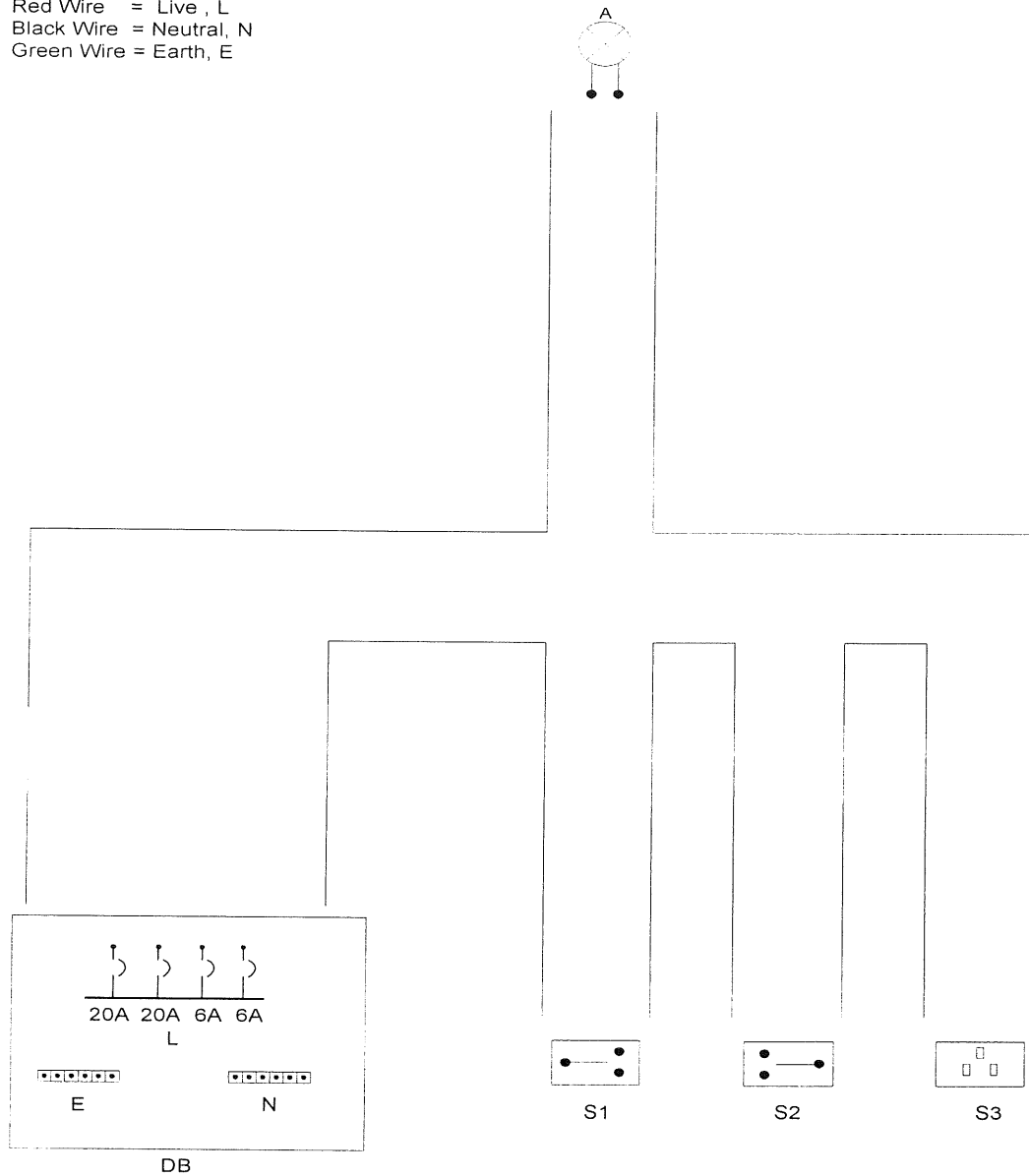
- a) Describe **three (3)** test for inspection in electrical installation. (6 marks)
- b) State the type of grounding to avoid poor sound quality. In television stations and recording studios and other installation where sound quality is critical. (1 marks)

.....*End of question*.....

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APPENDIX 1

Red Wire = Live, L
 Black Wire = Neutral, N
 Green Wire = Earth, E



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APPENDIX 2

